

In the Claims

1. (Currently amended) A brake rotor comprising:

a central mounting portion for mounting the brake rotor on a hub~~[,] said mounting portion having an annular wall having outer surfaces parallel to a central axis of said mounting hub;~~

a first annular braking surface and a second annular braking surface, wherein each braking surface includes an inner diameter and an outer diameter;

radially extending brake surface reinforcing ribs located between said first and second annular braking surfaces and between inner and outer diameters of the braking surfaces;

a bridge in the form of a radially extending wall completely surrounding said central mounting portion between ~~the annular wall of~~ said central mounting portion and the inner diameter of one of said first and second annular braking surfaces;
and

a plurality of radially extending bridge reinforcing ribs mounted on said bridge extending from ~~said annular wall~~ said central mounting portion to said outer diameter of said one of said first and second annular braking surfaces between said radially extending brake reinforcing ribs, wherein the central mounting portion, the braking surfaces, the bridge and the brake reinforcing and bridge reinforcing ribs are formed in a single piece and said brake reinforcing and bridge reinforcing ribs extend into a space between said first and second annular braking surfaces[.];

a cover for covering all or a portion of the bridge;

wherein the cover comprises a circular piece of material having a central opening corresponding in size to the central mounting portion of the rotor, wherein upon mounting of the cover onto the rotor, the central opening receives the central mounting portion of the rotor;

wherein the cover includes a plurality of fastening openings for receiving fasteners for fastening the cover to the rotor.

2-3. (Canceled)

4. (Previously presented) The brake rotor according to claim 1, wherein said braking surfaces, bridge, and bridge reinforcing ribs are not made of multiple pieces.

5. (Canceled)

6. (Original) The brake rotor according to claim 1, wherein either or both of the annular braking surfaces includes one or more slots.

7. (Original) The brake rotor according to claim 1, further comprising one or more pairs of openings, each pair of openings allowing communication between the first annular braking surface and the second annular braking surface.

8. (Original) The brake rotor according to claim 1, further comprising a hat portion disposed in the central mounting portion and adapted for mounting the rotor to a vehicle.

9. (Previously presented) The brake rotor according to claim 1, wherein a first opening allows the first annular surface to fluidly communicate with a vent.

10. (Original) The brake rotor according to claim 1, wherein the central mounting portion includes a hat having a plurality of openings for receiving fasteners from a hub or a plurality of fasteners for fastening a wheel to the hub and rotor combination.

11-13. (Canceled)

14. (Currently amended) A brake rotor comprising:

a central mounting portion for mounting the brake rotor onto a hub;

a first annular braking surface and a second annular braking surface, wherein each braking surface includes an inner diameter and an outer diameter;

a plurality of flow channels provided between the first annular braking surface and the second annular braking surface;

a bridge in the form of a radially extending wall completely surrounding and perpendicular to an outer surface said central mounting portion extending between the central mounting portion and said inner diameter of one of said braking surfaces;

and

a plurality of radially extending ribs positioned on the bridge and extending into the flow channels between said first and second annular braking surfaces, wherein the central mounting portion, the braking surfaces, the bridge and the ribs are formed in a single piece[.];

a cover for covering all or a portion of the bridge;

wherein the cover comprises a circular piece of material having a central opening corresponding in size to the central mounting portion of the rotor, wherein upon mounting of the cover onto the rotor, the central opening receives the central mounting portion of the rotor;

wherein the cover includes a plurality of fastening openings for receiving fasteners for fastening the cover to the rotor.

15. (Original) The brake rotor according to claim 14, wherein each flow channel includes at least one wall.

16. (Original) The brake rotor according to claim 15, wherein the at least one wall comprises one of the plurality of ribs.

17. (Canceled)

18. (Previously presented) The brake rotor according to claim 14, further comprising a plurality of openings positioned in the bridge between the ribs.

19-29. (Canceled)